

OMEGAFORCE S45

10 METER MOBILE AMATEUR TRANSCEIVER



- Microprocessor Controlled Transceiver
- 28.000 to 29.699 MHz Frequency Range
- 50+ Watts RF Output Power
- Uses Two ERF2030 Final Transistors!
- Variable Power Output - In All Modes
- **NEW!** – TOP GUN Modulator Feature – 50+ Watts of Swing with 1 Watt Carrier on AM!
- **NEW!** – TOP GUN Compressor Feature – Tailors and shapes the audio signal for maximum punch through heavy traffic
- AM / FM / USB / LSB / PA Modes
- 1 kHz / 10 kHz / 100 kHz Steps
- 5 Digit Frequency Display

- ECM Microphone with Up and Down Frequency Controls
- 5 Memory Channels - Saves Both Frequency and Mode
- Blue Back Lit Display with Dimmer
- Dual S/RF Meters - Analog and Digital!
- RF Gain and Microphone Gain Controls
- SWR / Calibrate Meter and Controls
- 1 kHz Clarifier - Both TX and RX
- Noise Blanker and Automatic Noise Limiter (ANL)
- 2 Frequency Scan Modes - Squelched and Un-Squelched
- Last Channel Recall - Returns Last Operated Freq. & Mode
- Split Frequency Offset for Repeater Use
- Receive Audio Tone Control
- **TURBO** Digital Echo - A Magnum Exclusive!
- AMT - All Mode Talk-Back with Volume Control
- Roger Beep with On/Off Control
- MARS / CAP Compatible (Permits Required)
- 1 Year Warranty
- Extended Service Contracts Available



MAGNUM INTERNATIONAL
a division of RF Limited

www.MagnumRadio.com

MAGNUM INTERNATIONAL

PO Box 445
 Issaquah, Washington 98027
 (T) 425-295-0390 • (F) 425-295-0394
 (I) www.MagnumRadio.com
 (E) info@MagnumRadio.com



General Specifications

Frequency Coverage : Transmit and Receive28.000 - 29.699 MHz
 Modes : AM / FM / USB / LSB / PA
 Number of Memory Channels : 5
 Antenna Impedance : 50 ohm, unbalanced
 Operating Temperature : -10⁰ C to +60⁰ C
 Frequency Control : Digital Phase-Lock Loop (PLL) Synthesizer
 Frequency Accuracy : Better than +10 ppm from 0 - 40⁰ C after 15 min. warm up
 Power Requirement : 12 - 13.8 V DC, negative ground
 Dimensions (W x H x D) : 197 x 57 x 273 mm (7.75 x 2.25 x 10.75 in)
 Weight : 1.8 kg (4 lbs)

Transmitter Specifications

Power Output : FM 40 Watts
 : SSB 50 Watts
 : AM 1-10 Watts Average / 50+ Watts PEP
 Final Transistors : **ERF2030 (x2)**
 Spurious Emissions : More than 50 dB below peak output power
 Carrier Suppression : More than 40 dB below peak output power
 FM Deviation : +/- 2 kHz maximum
 Frequency Response : 400 to 2800 Hz
 Microphone Impedance : ECM, 600 to 1K ohms

Receiver Specifications

Circuit Type : Double-Conversion Superheterodyne
 Intermediate Frequencies : 1st IF 10.695 MHz
 : 2nd IF 455 kHz
 Sensitivity : AM 1.0 uV at 10 dB S + N/N
 : FM 0.3uV at dB SINAD
 : AM / FM 6.0 kHz (-6 dB) / 18 kHz (-60 dB)
 Selectivity : Better than 70 dB
 Adjacent Channel Rejection : Better than 80 dB for all frequencies
 IF Rejection : Better than 80 dB for all frequencies
 Frequency Response : 250 to 3000 Hz
 Noise Blanker Type : All mode, seven stage high gain
 Audio Output Power : 2 watts minimum at 10% THD with an 8 ohm load
 Audio Output Impedance : 8 ohms